Bruhat Bangalore Mahanagara Palike
Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

NAME OF WORK: **Asphalting to roads and improvements to drains and footpath at 1st cross ,1st main ,1st cross ,28th cross ,9th cross,12th main ,13th cross ,11th cross ,12th cross and surroundings at Judicial Layout in ward no 04**

PROJECT COST: **99.00 Lakhs**

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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Detailed Estimate

Name of Work:Asphalting to roads and improvements to drains and footpath at 1st cross 1st main ,1st cross ,28th cross ,9th cross,12th main ,13th cross ,11th cross ,12th cross and surroundings at Judicial Layout in ward no 04

Estimate Amount : 9900000.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	**Removing BS Slab** of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	Existing Cover slab								
	12th A main								
	Ch: (48 - 76)	L/s	1	28	1.20		33.60		
	Ch: (60 - 90)	R/s	1	30	0.90		27.00		
	12th cross								
	Ch: (0 - 13)	L/s	1	13	1.20		15.60		
	Ch: (28 - 38)	L/s	1	10	1.20		12.00		
	Ch: (0 - 30)	R/s	1	30	1.20		36.00		
	Ch: (30 - 38)	R/s	1	8	1.20		9.60		
	13th cross								
	Ch: (55 - 74)	L/s	1	19	0.90		17.10		
							150.90	63.72	9615.35
2	**Refixing Stone Slabs** of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	Existing Cover slab								
	12th A main								
	Ch: (48 - 76)	L/s	1	28	1.20		33.60		
	Ch: (60 - 90)	R/s	1	30	0.90		27.00		
	12th cross								
	Ch: (0 - 13)	L/s	1	13	1.20		15.60		
	Ch: (28 - 38)	L/s	1	10	1.20		12.00		
	Ch: (0 - 30)	R/s	1	30	1.20		36.00		
	Ch: (30 - 38)	R/s	1	8	1.20		9.60		
	13th cross								
	Ch: (55 - 74)	L/s	1	19	0.90		17.10		
							150.90		
	Deduction for damaged 20%						-30.18		
							120.72	78.84	9517.56
3	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	New Drain								
	22nd cross from House no 89 to 18th main								
	Ch: (0 - 69)	L/s	1	69	1.70	1.800	211.14		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	18th main								
	Ch: (81 - 332)	R/s	1	251	1.70	1.500	640.05		
	Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-1	32	1.70	1.500	-81.60		
	New Culvert								
	22nd cross from House no 89 to 18th main								
	Ch: (69 - 81)	L/s	1	12	1.70	1.500	30.60		
	18th main								
	Ch: (81 - 332)								
	for Cross roads (115-106)+(148-135)+(263-253) = 32)		1	32	1.70	1.200	65.28		
	12th A main								
	Ch: (43 - 48)	L/s	1	5	1.50	0.650	4.88		
	Ch: (76 - 82)	L/s	1	6	1.50	0.650	5.85		
	Desilting								
	12th A main								
	Ch: (0 - 113)	L/s	1	113	0.50	0.700	39.55		
	Ch: (0 - 113)	R/s	1	113	0.50	0.700	39.55		
	12th cross								
	Ch: (0 - 75)	L/s	1	75	0.50	0.700	26.25		
	Ch: (0 - 75)	R/s	1	75	0.50	0.700	26.25		
	13th cross								
	Ch: (0 - 74)	L/s	1	74	0.50	0.700	25.90		
	Ch: (0 - 74)	R/s	1	74	0.50	0.700	25.90		
	11th cross								
	Ch: (0 - 173)	L/s	1	173	0.50	0.700	60.55		
	Ch: (0 - 173)	R/s	1	173	0.50	0.700	60.55		
	25th B cross								
	Ch: (0 - 292)	L/s	1	292	0.50	0.700	102.20		
	Ch: (0 - 292)	R/s	1	292	0.50	0.700	102.20		
	22nd cross from sangoolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)	B/s	2	198	0.50	0.700	138.60		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)	B/s	2	124	0.50	0.700	86.80		
	1st cross								
	Ch: (0 - 321)	B/s	2	321	0.50	0.700	224.70		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)	B/s	2	125	0.50	0.700	87.50		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)	B/s	2	328	0.50	0.700	229.60		
							2152.30	177.88	382850.23

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
4	**KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,** stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page No 23., I.No.5.6 of KPWD S.R 2015-16).**								
		Cum							
	Flagging course								
	12th A main								
	Ch: (0 - 43)	L/s	1	43	0.25	0.450	4.84		
	Ch: (48 - 76)	L/s	1	28	0.25	0.450	3.15		
	Ch: (82 - 113)	L/s	1	31	0.25	0.450	3.49		
	Ch: (0 - 60)	R/s	1	60	0.25	0.450	6.75		
	Ch: (60 - 90)	R/s	1	30	0.25	0.450	3.38		
	Ch: (90 - 113)	R/s	1	23	0.25	0.450	2.59		
	New Culvert								
	Ch: (43 - 48)	L/s	2	5	0.45	0.650	2.93		
	Ch: (76 - 82)	L/s	2	6	0.45	0.650	3.51		
							30.62	4135.32	126633.84
5	**KSRB 5-14 : Providing and constructing** precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) **with solid concrete blocks of size 40x15x20cms** conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **(Page No 25., I.No.5.34 of KPWD S.R 2015-16).**								
		Cum							
	Flagging course								
	12th A main								
	Ch: (0 - 43)	L/s	1	43		0.450	19.35		
	Ch: (48 - 76)	L/s	1	28		0.450	12.60		
	Ch: (82 - 113)	L/s	1	31		0.450	13.95		
	Ch: (0 - 60)	R/s	1	60		0.450	27.00		
	Ch: (60 - 90)	R/s	1	30		0.450	13.50		
	Ch: (90 - 113)	R/s	1	23		0.450	10.35		
							96.75	963.36	93205.08
6	**1 KSRB 15.1.1 Providing flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(Page No 112., I.No.15.1 of KPWD S.R 2015-16).**								
		Sqm							
	Flagging course								
	12th A main								
	Ch: (0 - 43)	L/s	1	43		0.450	19.35		
	Ch: (48 - 76)	L/s	1	28		0.450	12.60		
	Ch: (82 - 113)	L/s	1	31		0.450	13.95		
	Ch: (0 - 60)	R/s	1	60		0.450	27.00		
	Ch: (60 - 90)	R/s	1	30		0.450	13.50		
	Ch: (90 - 113)	R/s	1	23		0.450	10.35		
							96.75	99.36	9613.08

Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix **1:2:4 with cement @ 240kgs, with 20mm** and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**								
	Cum							
COPING -SSM								
12th A main								
Ch: (0 - 43)	L/s	1	43	0.45	0.075	1.45		
Ch: (48 - 76)	L/s	1	28	0.45	0.075	0.95		
Ch: (82 - 113)	L/s	1	31	0.45	0.075	1.05		
Ch: (0 - 60)	R/s	1	60	0.45	0.075	2.03		
Ch: (60 - 90)	R/s	1	30	0.45	0.075	1.01		
Ch: (90 - 113)	R/s	1	23	0.45	0.075	0.78		
New Culvert								
Ch: (43 - 48)	L/s	2	5	0.45	0.100	0.45		
Ch: (76 - 82)	L/s	2	6	0.45	0.100	0.54		
COPING -Solid block								
12th A main								
Ch: (0 - 43)	L/s	1	43	0.15	0.075	0.48		
Ch: (48 - 76)	L/s	1	28	0.15	0.075	0.32		
Ch: (82 - 113)	L/s	1	31	0.15	0.075	0.35		
Ch: (0 - 60)	R/s	1	60	0.15	0.075	0.68		
Ch: (60 - 90)	R/s	1	30	0.15	0.075	0.34		
Ch: (90 - 113)	R/s	1	23	0.15	0.075	0.26		
Packing concrete								
New Drain								
22nd cross from House no 89 to 18th main								
Ch: (0 - 69)	L/s	1	69	0.15	0.150	1.55		
18th main								
Ch: (81 - 332)	R/s	1	251	0.15	0.150	5.65		
Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-1	32	0.15	0.150	-0.72		
12th A main								
Ch: (0 - 43)	L/s	1	43	0.15	0.150	0.97		
Ch: (48 - 76)	L/s	1	28	0.15	0.150	0.63		
Ch: (82 - 113)	L/s	1	31	0.15	0.150	0.70		
Ch: (0 - 60)	R/s	1	60	0.15	0.150	1.35		
Ch: (60 - 90)	R/s	1	30	0.15	0.150	0.68		
Ch: (90 - 113)	R/s	1	23	0.15	0.150	0.52		
						21.98	**5490.72**	**120699.75**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
8	KSRRB M200-13.1. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. **By Mechanical Means. A. Cement Concrete Grade** M-15 &M-20.**(Page No 136, I.No.18.20 of KPWD S.R 2015-16).**								
		Cum							
	22nd cross from House no 89 to 18th main								
	Existing Drain								
	Ch: (0 - 69)	L/s	1	69	0.90	0.150	9.32		
			2	69	0.15	0.90	18.63		
							27.95	460.10	12857.49
9	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	New Drain								
	22nd cross from House no 89 to 18th main								
	Ch: (0 - 69)	L/s	1	69	1.50	0.100	10.35		
	18th main								
	Ch: (81 - 332)	R/s	1	251	1.50	0.100	37.65		
	Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-1	32	1.50	0.100	-4.80		
	New Culvert								
	22nd cross from House no 89 to 18th main								
	Ch: (69 - 81)	L/s	1	12	1.50	0.100	1.80		
	18th main								
	Ch: (81 - 332)								
	for Cross roads (115-106)+(148-135)+(263-253) = 32)		1	32	1.50	0.100	4.80		
							49.80	5236.92	260798.62
10	Providing and laying **Plain /reinforced cement concreteM20** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2014-15).**								
		Cum							
	RAFT								
	New Drain								
	22nd cross from House no 89 to 18th main								
	Ch: (0 - 69)	L/s	1	69	1.50	0.200	20.70		
	18th main								
	Ch: (81 - 332)	R/s	1	251	1.50	0.200	75.30		

Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		
Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-1	32	1.50	0.200	-9.60		
New Culvert								
22nd cross from House no 89 to 18th main								
Ch: (69 - 81)	L/s	1	12	1.50	0.200	3.60		
18th main								
Ch: (81 - 332)								
for Cross roads (115-106)+(148-135)+(263-253) = 32)		1	32	1.50	0.200	9.60		
WALL								
New Drain								
22nd cross from House no 89 to 18th main								
Ch: (0 - 69)	L/s	2	69	0.20	1.500	41.40		
18th main								
Ch: (81 - 332)	R/s	2	251	0.20	1.200	120.48		
Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-2	32	0.20	1.200	-15.36		
New Culvert								
22nd cross from House no 89 to 18th main								
Ch: (69 - 81)	L/s	2	12	0.20	1.500	7.20		
18th main								
Ch: (81 - 332)								
for Cross roads (115-106)+(148-135)+(263-253) = 32)		2	32	0.20	1.200	15.36		
						268.68	6931.44	1862339.30
KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2014-15).**									
	Tonne							
from above item								
taking60kg/cum			268.68*60 /1000					
						16.12		
						16.12	69805.80	1125325.34
Providing precast slab of **100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- **Data rate**								
	Sqm							
New Drain								
22nd cross from House no 89 to 18th main								
Ch: (0 - 69)	L/s	1	69	1.50		103.50		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	18th main								
	Ch: (81 - 332)	R/s	1	251	1.50		376.50		
	Deuction for Cross roads (115-106)+(148-135)+(263-253) = 32)		-1	32	1.50		-48.00		
	12th A main								
	Ch: (0 - 43)	L/s	1	43	1.20		51.60		
	Ch: (48 - 76)	L/s	1	28	1.20		33.60		
	Ch: (82 - 113)	L/s	1	31	1.20		37.20		
	Ch: (0 - 60)	R/s	1	60	1.20		72.00		
	Ch: (60 - 90)	R/s	1	30	1.20		36.00		
	Ch: (90 - 113)	R/s	1	23	1.20		27.60		
	for damaged 20%						30.18		
							720.18	1834.00	1320810.12
13	Providing precast slab of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- **Data rate**								
		Sqm							
	New Culvert								
	22nd cross from House no 89 to 18th main								
	Ch: (69 - 81)	L/s	1	12	1.50		18.00		
	18th main								
	Ch: (81 - 332)								
	for Cross roads (115-106)+(148-135)+(263-253) = 32)		1	32	1.50		48.00		
	New Culvert								
	12th main								
	Ch: (43 - 48)	L/s	1	5	1.50		7.50		
	Ch: (76 - 82)	L/s	1	6	1.50		9.00		
							82.50	5111.00	421657.50

o.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		
	ROAD WORKS								
14	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Road Cutting								
	28th B cross								
	Ch: (0 - 180)		1	180	1.00	0.275	49.50		
	Berm Cutting								
	12th A main								
	Ch: (0 - 113)	L/s	1	113	1.50	0.150	25.43		
	Ch: (0 - 113)	R/s	1	113	1.50	0.150	25.43		
	22nd cross from sangoolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)	B/s	2	198	2.00	0.150	118.80		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)	B/s	2	124	1.50	0.150	55.80		
	1st cross								
	Ch: (0 - 321)	B/s	2	321	1.50	0.150	144.45		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)	B/s	2	125	1.50	0.150	56.25		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)	B/s	2	328	1.50	0.150	147.60		
							623.25	**143.32**	**89324.19**
15	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No 157., I.No.20.18 of KPWD S.R 2015-16).								
		Cum							
	Road Cutting								
	28th B cross								
	Ch: (0 - 180)		1	180	0.90	0.225	36.45		
							36.45	**1713.96**	**62473.84**
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (Page No 160., I.No.21.6 of KPWD S.R 2015-16).								
		Sqm							
	Road Cutting								
	28th B cross								
	Ch: (0 - 180)		1	180	0.90		162.00		
							162.00	**32.40**	**5248.80**
17	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							

No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	12th A main								
	Ch: (0 - 113)		1	113	5.00		565.00		
	12th cross								
	Ch: (0 - 75)		1	75	5.00		375.00		
	13th cross								
	Ch: (0 - 74)		1	74	5.00		370.00		
	11th cross								
	Ch: (0 - 173)		1	173	5.20		899.60		
	28th B cross								
	Ch: (0 - 292)		1	292	6.50		1898.00		
	22nd cross from sangoolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)		1	198	6.20		1227.60		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)		1	124	6.00		744.00		
	1st cross								
	Ch: (0 - 321)		1	321	6.50		2086.50		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)		1	125	5.00		625.00		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)		1	328	6.00		1968.00		
							10758.70	3.24	34858.19
18	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	12th A main								
	Ch: (0 - 113)		1	113	5.00		565.00		
	12th cross								
	Ch: (0 - 75)		1	75	5.00		375.00		
	13th cross								
	Ch: (0 - 74)		1	74	5.00		370.00		
	11th cross								
	Ch: (0 - 173)		1	173	5.20		899.60		
	28th B cross								
	Ch: (0 - 292)		1	292	6.50		1898.00		
	22nd cross from sangoolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)		1	198	6.20		1227.60		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)		1	124	6.00		744.00		
	1st cross								
	Ch: (0 - 321)		1	321	6.50		2086.50		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)		1	125	5.00		625.00		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)		1	328	6.00		1968.00		
							10758.70	15.12	162671.54

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		
19	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	Road Cutting								
	28th B cross								
	Ch: (0 - 180)		1	180	0.90	0.050	8.10		
	Profile correction								
			1	2151.74		0.050	10.76		
	taking 20% of the area								
							18.86	7927.20	149496.69
20	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	12th A main								
	Ch: (0 - 113)		1	113	5.00	0.030	16.95		
	12th cross								
	Ch: (0 - 75)		1	75	5.00	0.030	11.25		
	13th cross								
	Ch: (0 - 74)		1	74	5.00	0.030	11.10		
	11th cross								
	Ch: (0 - 173)		1	173	5.20	0.030	26.99		
	28th B cross								
	Ch: (0 - 292)		1	292	6.50	0.030	56.94		
	22nd cross from sangeolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)		1	198	6.20	0.030	36.83		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)		1	124	6.00	0.030	22.32		
	1st cross								
	Ch: (0 - 321)		1	321	6.50	0.030	62.60		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)		1	125	5.00	0.030	18.75		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)		1	328	6.00	0.030	59.04		
							322.76	9822.60	3170352.20
	ROAD FURNITURES								
21	KSRRB M800-13. Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications, MORTH No. 803 **(Page No 181., I.No.24.15 of KPWD S.R 2015-16).**								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Road Marking	Sqm							
	12th A main								
	Ch: (0 - 113)		2	113	0.10		22.60		
	12th cross								
	Ch: (0 - 75)		2	75	0.10		15.00		
	13th cross								
	Ch: (0 - 74)		2	74	0.10		14.80		
	11th cross								
	Ch: (0 - 173)		2	173	0.10		34.60		
	28th B cross								
	Ch: (0 - 292)		2	292	0.10		58.40		
	22nd cross from sangoolirayana garden to Samudaya Bhavan								
	Ch: (0 - 198)		2	198	0.10		39.60		
	8th main from 3rd cross to End road								
	Ch: (0 - 124)		2	124	0.10		24.80		
	1st cross								
	Ch: (0 - 321)		2	321	0.10		64.20		
	Railway parallel road from 1st cross								
	Ch: (0 - 125)		2	125	0.10		25.00		
	2nd cross from Railway parallel road to 8th main								
	Ch: (0 - 328)		2	328	0.10		65.60		
							364.60	473.04	172470.38
	Sub Total								9602819.10
22	Cost towards Design Report and Detailed Estimate,PMC/Third party								96028.19
23	**Cost of Plastic@ 8% of bitumen qty for BC**	**Kg**	1	3640.74				**27.00**	98300.09
24	Cost towards DLP and contigencies								96028.19
25	Miscllenous and other charges								6824.43
	Grand Total								9900000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:
For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-08
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP